

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/684,044	10/06/2000	Eilaz Babaev	24149-11	3047
7:	590 04/23/2004		EXAMI	NER
George Likourezos			THOMPSON, MICHAEL M	
Carter Deluca Farrell & Schmidt LLP			<u>_</u>	
445 Broad Hollow Road			ART UNIT	PAPER NUMBER
Suite 225			3763	0 0
Melville, NY	11747		DATE MAILED: 04/23/2004	しょ

Please find below and/or attached an Office communication concerning this application or proceeding.

·		<u> </u>
	Application No.	Applicant(s)
	09/684,044	BABAEV, EILAZ
Office Action Summary	Examiner	Art Unit
	Michael M. Thompson	3763
The MAILING DATE of this communicate Period for Reply	ion app ars on the cover sheet with th	correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA: - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica: - If the period for reply specified above is less than thirty (30) dated in the complex of the maximum statutor. - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a reply bation. ys, a reply within the statutory minimum of thirty (30) y period will apply and will expire SIX (6) MONTHS for the statute, cause the application to become ABANDC	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).
Status		•
1)⊠ Responsive to communication(s) filed o	n <u>11 February 2004</u> .	
2a)⊠ This action is FINAL . 2b)[This action is non-final.	
3) Since this application is in condition for closed in accordance with the practice up		
Disposition of Claims		•
4) ☐ Claim(s) <u>1-43,50-53 and 59</u> is/are pended 4a) Of the above claim(s) <u>2-3,5,7-13,15-5</u>) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1,4,6,14,21,23,25,32,40-42,50</u> 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	- <u>20,22,24,26-31,33-39,43,53</u> is/are wi - <u>52 and 59</u> is/are rejected.	ithdrawn from consideration.
Application Papers		
9)☐ The specification is objected to by the E	xaminer.	
10) The drawing(s) filed on is/are: a)		
Applicant may not request that any objection		
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by		
Priority under 35 U.S.C. § 119		
•	cuments have been received. cuments have been received in Applic he priority documents have been rece Bureau (PCT Rule 17.2(a)).	cation No eived in this National Stage
Attachment(s)	" 	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 		

Application/Control Number: 09/684,044 Page 2

Art Unit: 3763

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4, 6, 14, 50-52, and 59 are rejected under 35 U.S.C. 102(b) as being anticipated by Durley, III. (4,085,893). Durley, III. teaches a nozzle for ultrasound production of a sprayed liquid comprising a main body (Figures 1, 7, and 10) wherein the main body is close to the free distal end of the ultrasound transducer with an opening or dispensing orifice is at the most distal end of the transducer. He teaches a valve (170) controlling the flow rate of the solution being delivered to the transducer, the main body being connected to at least one reservoir (column 11) for delivering an atomized solution.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 21, 23, 25, 32, and 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Durley, III. Durley, III. teaches all of the limitations of the claims except for

Application/Control Number: 09/684,044

Art Unit: 3763

explicitly designating the nozzle is made of one piece and whether or not the nozzle is sterile, sterilizable, or disposable, a reservoir on top or on the side, or a rigidly connected reservoir. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to provide a rigidly connected reservoir or a reservoir on the top or side of the device because Applicant has not disclosed that positioning the reservoir on the top or side or providing a rigidly connected reservoir provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with a port on the bottom side or any side and a flexibly connected reservoir because the ability of the opening to convey liquid to the ultrasound transducer tip is not affected by the reservoirs location or rigidity. Therefore, it would have been an obvious matter of design choice to modify Durley, III. To obtain the invention as specified in the claims.

It would have further been obvious to one having ordinary skill in the art, at the time the invention was made to make the nozzle as one piece, since it has been held that one-piece construction, in place of separate elements fastened together, is a design consideration within the skill of the art. In re Kohno, 391 F.2d 959, 157 USPQ 275 (CCPA 1968); In re Larson, 340 F.2d 965, 144 USPQ 347 (CCPA 1965). Furthermore, it is well known that dental tools are expected to be sterile and sterilizable while the disposability of an apparatus is delegated to the practitioner.

Application/Control Number: 09/684,044

Art Unit: 3763

Terminal Disclaimer

5. The terminal disclaimers filed on February 11, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent No's: 6,569,099; 6,601,581; 6,663,554 have been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

Applicant's arguments filed February 11, 2004 have been fully considered but they are not persuasive. The Examiner respectfully disagrees with Applicant's arguments that the Durley, III device does not teach the water or other liquid directed at the most distal end and the devices being connected to or in fluid communication with the reservoir or holder for holding liquid. On the contrary Figure 10 shows the water being directed to the most distal end of the device at the distal tip. If the flow where even higher the water would exit the tube or pipe (16) toward the distal direction in an even greater amount. Durley, III. also teaches the transducer including the tail end mass (26) and front end mass (22) which includes vibratory member (14) constituting the "ultrasound transducer tip." He further teaches that the device may "be used in all other types of humidifiers ... is well adapted for use in portable unit ... the humidifier can readily be adapted for use with any collapsible water reservoir." It is clear from these statements that the device may be used with and may be connected to a reservoir. Furthermore, the device may be contained or coaxially placed within a main body/holder of a device that supplies the reservoir,

Application/Control Number: 09/684,044

Art Unit: 3763

etc. to expel the fluid within the reservoir wherein the transducer is separable from the main body/holder.

Contacts

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Michael Thompson whose telephone number is (703) 305-1619. The Examiner can normally be reached on Monday through Friday from 9 am to 5 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Primary, Brian Casler, can be reached on (703) 308-3552. The official fax phone number for all submissions to the organization where this application or proceeding is assigned is (703) 872-9306.

Michael M. Thompson

Patent Examiner

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINE
TECHNOLOGY CENTER 3700

April 22, 2004